

**IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE**

Appl. No. :  
Applicant : Yoichiro YAMANAKA et al  
Filed : Concomitantly herewith  
TC/A.U. :  
Examiner: :  
Docket No. : 03547C/HG  
Customer No.: 01933  
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Lori Valdes

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**INFORMATION DISCLOSURE STATEMENT  
FILED CONCOMITANT WITH APPLICATION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450


S I R :

A copy of each of the publications identified in the enclosed Form PTO/SB/08A is enclosed herewith. JP 63-236640 A and JP 05-200961 are identified and discussed in the present specification on pages 1 and 2. All of the other publications identified on the enclosed Form PTO/SB/08A are identified in the enclosed copy of the English language International Search Report in the parent PCT/JP02/02343.

It is requested that said publications be considered and that a copy of the enclosed Form PTO/SB/08A with the Examiner's

initials in the left column be returned to the undersigned attorney.

Respectfully submitted,

  
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HG/lpv

Encs.: Form PTO/SB/08A and publications identified thereon;  
International Search Report

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PTO/SB/08A (08-00)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for Form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number			
				Filing Date		Concomitantly herewith	
				First Named Inventor		Y. YAMANAKA et al	
				Group Art Unit			
				Examiner Name			
Sheet	1	of	1	Attorney Docket Number		03547C/HG	

**U.S. PATENT DOCUMENTS**

Exam. Inits <sup>1</sup>	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion

**FOREIGN PATENT DOCUMENTS**

Exam. Inits <sup>1</sup>	Cite No <sup>1</sup>	Offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
NSH		JP	63-236640	A	TOYO KOHAN CO LTD	10-03-1988		*
NSH		JP	5-200961	A	TOYO KOHAN CO LTD	08-10-1993		*
NSH		EP	1 174 457 ✓	A	TORAY INDUSTRIES	01-23-2002		
NSH		JP	9-123352 ✓	A	KANEBO LTD	05-13-1997		*
NSH		JP	7-109363 ✓	A	TOYOCO CO LTD	04-25-1995		*
NSH		JP	2000-158585 ✓	A	NKK CORP	06-13-2000		*
NSH		JP	2000-158586 ✓	A	NKK CORP	06-13-2000		*
NSH		JP	2000-158583 ✓	A	NKK CORP	06-13-2000		*
NSH		JP	2000-158588	A	NKK CORP	06-13-2000		*
NSH		JP	2000-158584 <sup>52</sup>	A	NKK CORP	06-13-2000		*
*English language Abstract only								
Examiner Signature					Date Considered	4/5/04		

<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. <sup>2</sup> Include copy of this form with next communication to applicant.

<sup>3</sup> Unique citation designation number. <sup>4</sup> See kinds of U.S. Patent Documents. <sup>5</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>6</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>7</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>8</sup> Place a check here if English translation is attached.

DATE MAILED: September 8, 2003

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP02/02343

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> B32B15/08, C08J5/18, C08L67/02, B65D8/16

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> B32B15/08, C08J5/18, C08L67/02-67/03

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2002
Kokai Jitsuyo Shinan Koho	1971-2002	Jitsuyo Shinan Toroku Koho	1996-2002

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
EP X	WO 01/40357 A (Toray Ind. Inc.), 07 June, 2001 (07.06.01), & JP 2001-220453 A & EP 1174457 A	1-29
X	JP 9-123352 A (Kanebo, Ltd.), 13 May, 1997 (13.05.97), (Family: none)	1-3, 5, 7, 11, 15-17, 19, 22-29 8-10, 12-14
Y		
X	JP 7-109363 A (Toyobo Co., Ltd.), 25 April, 1995 (25.04.95), (Family: none)	1-3, 5, 7, 11, 15-17, 19, 22-29 8-10, 12-14
Y		
Y	JP 2000-158585 A (NKK Corp.), 13 June, 2000 (13.06.00), (Family: none)	8

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
07 June, 2002 (07.06.02)

Date of mailing of the international search report  
25 June, 2002 (25.06.02)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/02343

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2000-158586 A (NKK Corp.), 13 June, 2000 (13.06.00), (Family: none)	9
Y	JP 2000-158583 A (NKK Corp.), 13 June, 2000 (13.06.00), (Family: none)	10
Y	JP 2000-158588 A (NKK Corp.), 13 June, 2000 (13.06.00), (Family: none)	12
Y	JP 2000-158584 A (NKK Corp.), 13 June, 2000 (13.06.00), (Family: none)	13